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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,011	12/17/2001	Howard Hong-Dough Lee		4141

7590 11/03/2004
Howard Hong-Dough Lee
4350 Derry Road
Bloomfield, MI 48302

EXAMINER

WANG, ALBERT C

ART UNIT	PAPER NUMBER
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2115

DATE MAILED: 11/03/2004

13

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/016,011	Applicant(s) LEE, HOWARD HONG-DOUGH	
	Examiner Albert Wang	Art Unit 2185	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 48-63 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 48-63 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
 If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The instant application is a divisional of Application No. 09/293,089, now U.S. Patent No. 6,341,354. By preliminary amendment, claims 1-47 are canceled, 48-53 are amended, 54-63 are added.

Specification

2. The disclosure is objected to because of the following informalities: on page 3, line 26, "Ser. No. 09/026,032" should be replaced with -Ser. No. 09/028,032, now U.S. Patent No. 6,098,175-.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 48, 50, 52-54, 56, 58, and 60-62 are rejected under 35 U.S.C. 102(e) as being anticipated by Huang, U.S. Patent No. 6,035,408.

As per claim 48, Huang discloses an energy-conserving microprocessor or CPU system comprising:

- (a) keep-alive circuitry operable for performing auxiliary information processing when receiving keep-alive power (Col. 3, lines 1-22 and Fig. 1, low power

Art Unit: 2185

processor 22 receives power from internal power source 19 when switch 25 is in alternate position); and

- (b) main circuitry operable for performing main information processing only when receiving main power (Col. 3, lines 1-22 and Fig. 1, high power processor 20 receives power from external power source 16).

As per claim 50, Huang discloses said keep-alive circuitry is provided for controlling an activity for controlling an activity of associated device means when said main power is absent (Fig. 1, low power processor 22 controls an activity of devices 11-14).

As per claim 52, Huang discloses said keep-alive circuitry is adapted to establish circuit communication with an interfacing means provided for transmitting a signal issued from an externals (Fig. 1, issued from I/O 14 or data entry 12).

As per claim 53 Huang discloses said main circuitry is adapted to establish circuit communication with an interfacing means provided for transmitting a signal issued from an externals (Fig. 1, issued from I/O 14 or data entry 12).

As per claims 54, Huang discloses said keep-alive circuitry is adapted to be de-actuable in response to a request signal (Col. 3, lines 23-33, switch 25 actuated in response to external power sense).

As per claims 56, 58, and 60-62, since Huang discloses the system of claims 48, 50, and 52-54, Huang discloses the claimed method.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2185

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 49 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang as applied to claims 48 and 56 above, and further in view of Reinschmidt, U.S. Patent No.

5,832,294.

As per claim 49, Huang is silent as to teaching said keep-alive circuitry is adapted to be also operable when said main power is present. Reinschmidt teaches that two processors can cooperate together (Col. 1, lines 24-28, dual-processor mode). At the time of the invention, it would have been obvious to one of ordinary skill in the art to apply Reinschmidt's dual-processor mode to Huang's system. A motivation for doing so would have been to obtain greater processing power.

As per claim 57, since Huang/Reinschmidt teaches the system of claim 49, the combination teaches the claimed method.

5. Claims 51 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang as applied to claims 48 and 56 above, and further in view of Ohtsuki, U.S. Patent No. 5,471,621.

As per claim 51, Huang does not expressly teach said keep-alive circuitry is provided to performing a keep-alive task when said main power is absent, said keep-alive task including to actuate said main circuitry when needed. Ohtsuki teaches keep-alive circuitry actuating said main circuitry (Col. 3, lines 57-63). At the time of the invention, it would have been obvious to one of ordinary skill in the art to apply Ohtsuki's actuating the main circuitry by the keep-alive circuitry. A motivation for doing would have been to permit programmability in determining

Art Unit: 2185

when to actuate the main circuitry (as opposed to using Huang's external power sense circuitry in Fig. 3).

As per claim 59, since Huang/Ohtsuki teaches the system of claim 51, the combination teaches the claimed method.

6. Claims 55 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang as applied to claims 48 and 56 above, and further in view of Young, U.S. Patent No. 5,513,361.

As per claim 55, Huang does not expressly teach means operable for cooling said main circuitry only when said main power is present. Huang does teach that said main circuitry is active only said main power is present. Young teaches means for cooling only when the main circuitry is active (Col. 2, lines 1-30). At the time of the invention, it would have been obvious to one of ordinary skill in the art to apply Young's means for cooling to Huang's system. A motivation for doing so would have been to conserve power.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert Wang whose telephone number is 703-305-5385. The examiner can normally be reached on M-F (9:30 - 6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 703-305-9717. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

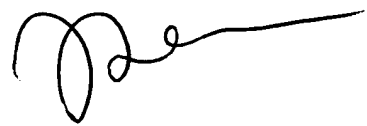
Application/Control Number: 10/016,011

Page 6

Art Unit: 2185

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August 12, 2003



THOMAS LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Notice of References Cited

Application/Control No.

10/016,011

Applicant(s)/Patent Under

Reexamination

LEE, HOWARD HONG-DOUGH

Examiner

Albert Wang

Art Unit

2185

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,035,408	03-2000	Huang, Su Shion	713/320
	B	US-5,832,294	11-1998	Reinschmidt, Robert M.	712/32
	C	US-5,513,361	04-1996	Young, Bruce A.	713/320
	D	US-5,471,621	11-1995	Ohtsuki, Tetsuji	713/323
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.